Owner's Guide

Assistant's Instrumentation

a-dec®

85.2610.00

Warranty Information	
Serial Number	N/A
Model Number	N/A
Date Purchased	

Date of Service	Model/Description of Service	Technician's Initials

For service information contact your local authorized A-dec dealer.

Check with local codes and A.D.A. (Americans with Disabilities Act) requirements for installation of this product.

A-dec warrants its products and A-dec/W&H Synea handpieces against defects in material or workmanship for one year from time of delivery. All other handpiece instrumentation has a warranty period of six months. A-dec's sole obligation under the warranty is to provide parts for the repair, or at its option, to provide the replacement product (excluding labor). The buyer shall have no other remedy. (All special, incidental, and coincidental damages are excluded.) Written notice of breach of warranty must be given to A-dec within the warranty period. The warranty does not cover damage resulting from improper installation or maintenance, accident or misuse.The warranty does not cover damage resulting from the use of cleaning, disinfecting or sterilization chemicals and processes. The warranty also does not cover light bulbs. Failure to follow instructions provided in A-dec's Operation and Maintenance Instructions (Owner's Guide) may void the warranty.

NO OTHER WARRANTIES AS TO
MERCHANTABILITY OR OTHERWISE ARE MADE.

a-dec

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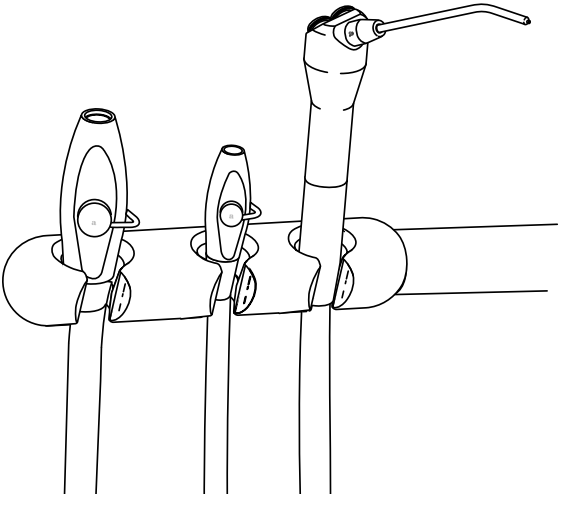

Assistant's Instrumentation

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About Your Assistant's Instrumentation

Assistant's instrumentation typically includes **A-dec's Autoclavable Syringe**, **Autoclavable HVE**, and **Autoclavable Saliva Ejector** as standard equipment. On some units and carts, optional instruments may include an additional HVE. The **Solids Collector** *(see Figures 3 and 4 on page 7)* is also a part of the Assistant's Instrumentation, but its location varies depending on your system.

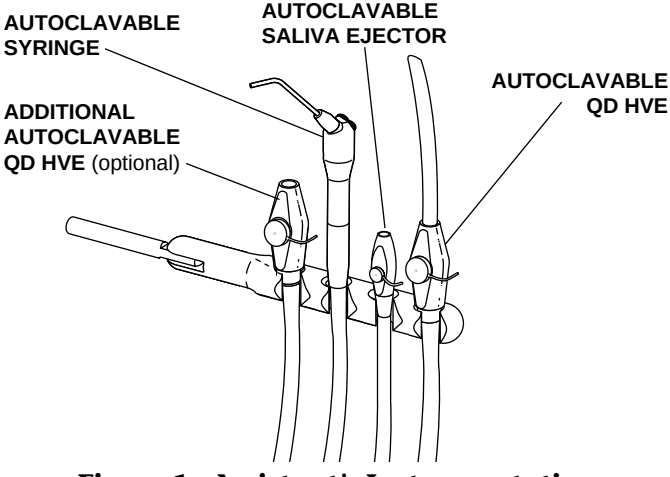

Figure 1. Assistant's Instrumentation
(Shown with optional four position unitized holder and additional Autoclavable HVE)

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Controls

The location of the **master on/off toggle** for assistant's instrumentation will vary but the function is the same. Moving the toggle to the ON position provides air and water to the system. Move the toggle to the OFF position while the unit is unattended to prevent water damage in case of a leak.

Where assistant's instrumentation is installed as part of a delivery system (such as a chair mount system, duo cart, duo Preference unit, or duo wall mount unit), the master on/off toggle is located on the control head. Other types of assistant's instrumentation may have the master on/off toggle located on the post box .

When the instrumentation is installed on an assistant's cart or assistant's wall mount unit, the master on/off toggle is located on the side of the cart or wall mount unit.

The master on/off toggle for chair-mounted assistant's instrumentation is located on the side of the floor box .

Instruments

Autoclavable HVE and Saliva Ejector

Assistant's instrumentation includes an A-dec Autoclavable HVE and an Autoclavable Saliva Ejector. It may also include a second HVE as an option. The autoclavable HVE and Saliva Ejector are equipped with a quick disconnect to remove the valve body from the tubing for cleaning and autoclaving.

Right- to Left-Hand Conversion of the Autoclavable HVE and Saliva Ejector

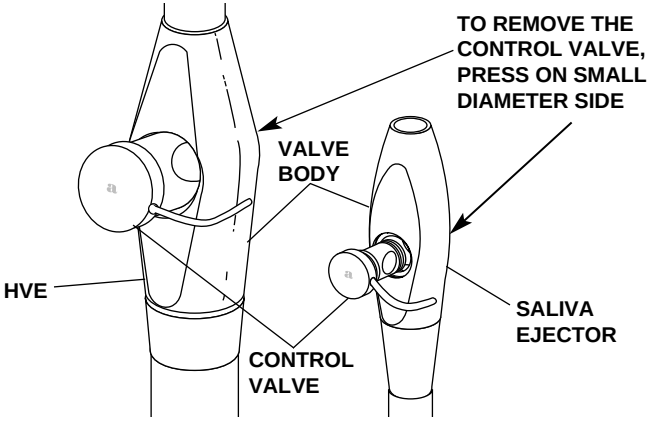

Figure 2.

The HVE and Saliva Ejector can be easily converted for opposite-hand operation *(see Figure 2)*.

To convert the HVE or Saliva Ejector for opposite-hand use, press the control valve out of the HVE body *(see Figure 2)*. Rotate the control valve 180°, then press it back into place.

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Autoclavable HVE and Saliva Ejector Asepsis

1. Remove the tip from the valve body. *(For recommended HVE tip asepsis, see Sterilizing the HVE Tip on page 6)*.
2. Although it is not necessary to do so, you may want to turn off the central vacuum before disconnecting the HVE or Saliva Ejector.
3. To remove the HVE or saliva ejector body, simply separate the body from the tubing by pulling it apart at the tailpiece *(see Figure 2)*.
4. Remove the control valve by pressing it out of the HVE or saliva ejector valve body.
5. Clean and rinse the valve body and control valve using a mild detergent, water, the brushes that have been provided, and allow to dry completely.
6. Heat sterilize the valve body and control valve using any of the following methods: *steam autoclave, dry heat, or chemical vapor*.
7. Apply a light coat of **A-dec Silicone Lubricant** *(Part No. 98.0090.01, package of six)* on the O-ring seals of the control valve.

Caution

Use only silicone lubricant when lubricating instrumentation O-rings. Petroleum products will cause permanent damage to the O-rings.

8. Reinstall the control valve in the valve body. *(see Figure 2)*.
9. Reinstall the body on the tubing tailpiece.
10. Operate the HVE and the saliva ejector valves several times to verify that it rotates smoothly.

Sterilizing the HVE Tip

It is recommended that the ***A-dec stainless steel tips*** used on the A-dec HVE be heat sterilized between patients by any of the following methods: *steam autoclave, dry heat, or chemical vapor*.

1. Remove the HVE tip from the HVE valve body.
2. Clean and rinse the HVE tips using a mild detergent and water, then allow the tips to completely dry.
3. Sterilize the HVE tips using one of the methods listed above.

If you are using disposable HVE tips, be sure to replace them with new tips between patients.

Note

The standard A-dec HVE is designed with a cannula connection opening of 0.435 ± 0.006 inch (11.05 ± 0.15 mm). Please select tips compatible with this if not using A-dec tips.

Note

The A-dec 15 mm HVE has a cannula connection opening of .592 inch (14.8 mm) + 1 1/2˚ per side per DIN-13-938 section 3.1. Please select tips compatible with this.

Note

The A-dec Saliva Ejector is designed with a cannula connection opening of 0.265 ± 0.006 inch (6.73 ± 0.15 mm). Please select tips compatible with this.

Autoclavable Syringe

For information on the operation, care, and maintenance of *A-dec's Autoclavable Syringe,* refer to your ***Autoclavable Syringe Owner's Guide*** *(A-dec Publication No. 85.0680.00)*.

Solids Collector

The solids collector prevents solids from entering the central vacuum system *(see Figures 3 and 4)*.

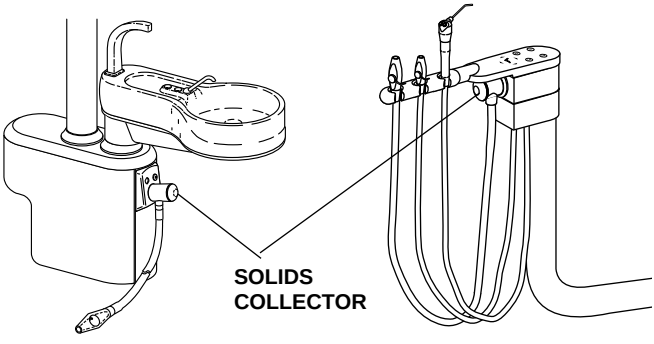

Figure 3. Cascade and Radius Solids Collector

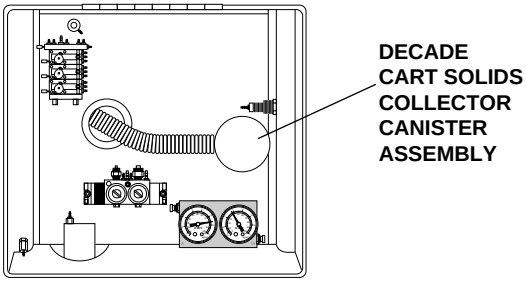

Figure 4. Decade Cart Solids Collector

Solids Collector Asepsis

At least once per week, remove and clean *(with a mild detergent and water)* or discard and replace the solids collector screen for the Cascade products *(see Figure 5)* or for the Decade products *(see Figure 6)*. This is necessary to ensure proper suction from the central vacuum, and to maintain proper treatment room asepsis.

Solids Collector for Cascade

Turn OFF vacuum or, if vacuum is ON, open the HVE control valve to facilitate removal of the solids collector cap.

Remove the solids collector screen and cap from the connector. Pull out on the cap: the screen is attached to the cap.

Remove the screen from the cap. Place your thumb on the large hole and forefinger on the key directly opposite the large hole *(see Figure 5)*. Squeeze, then slide the cap out of the screen. Clean the screen. If you have a disposable HVE screen, discard following the manufacturer's instructions.

Caution

Do not empty the screen into your cuspidor. Doing so could plug the drain.

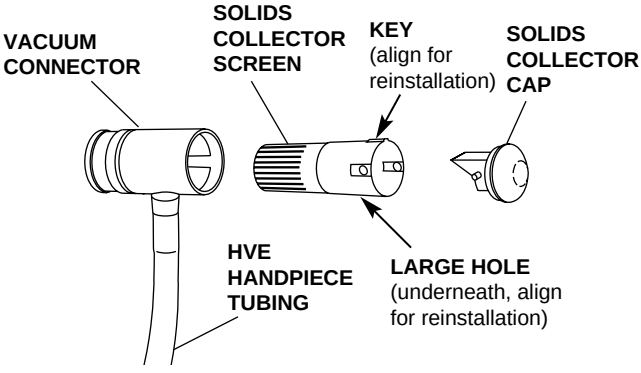

Figure 5. Solids Collector for Cascade

Reinstall the solids collector. Insert the cap back into the screen until the two circular buttons on the cap snap into place. Make sure they are properly aligned with the tongue on the cap directly opposite to the large hole in the screen *(see Figure 5)*. Slide the screen and cap into the vacuum connector, making sure the key faces up and the hole faces down.

Solids Collector for Decade

Turn OFF the vacuum in order to remove the solids collector cap. However, if vacuum is ON, open the HVE to facilitate removal of the solids collector cap *(see Figure 6)*. Clean the screen. **DO NOT** lubricate the O-rings on the vacuum canister cap.

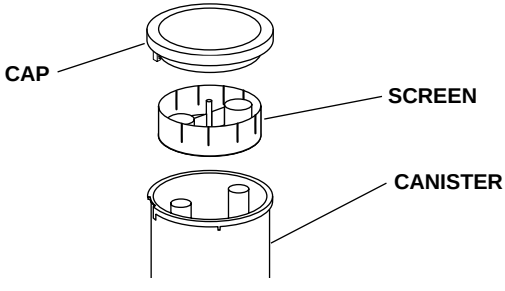

Figure 6. Solids Collector for Decade

Adjustments

Instrument Holder Positioning

The multi-position style instrument holder is designed to pivot or twist to provide flexibility in positioning the instruments to suit your style of practice. Pivot and twist tension are set at the factory and should not need to be adjusted. If the pivot or twist movement is too tight or too loose, you may want to adjust the friction.

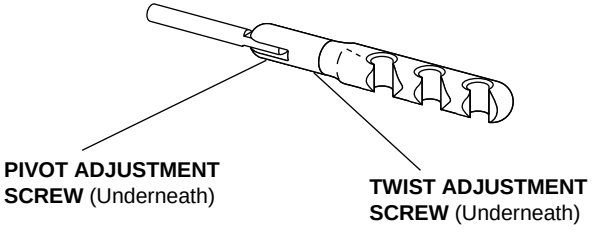

Figure 7. Pivot and Twist Adjustments

Pivot Friction

To adjust the pivot friction, locate the adjustment setscrew *(see Figure 7)*. Use a 5/32-inch hex key and turn the key clockwise to increase friction which will make the holder pivot less freely. Turn the key counterclockwise to decrease friction and allow the holder to pivot more freely.

Twist Friction

To adjust the twist friction, locate the adjustment setscrew *(see Figure 7)*. Use a 3/32-inch hex key and turn the key clockwise to increase friction which will make the holder twist less freely. Turn the key counterclockwise to decrease friction and allow the holder to twist more freely.

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Leveling Adjustment

If you have a telescoping assistant's instrumentation arm, it has been leveled at the factory and should not require further adjustment. However, if the arm needs to be leveled, locate the adjustment setscrew underneath the telescoping arm *(see Figure 8)*.

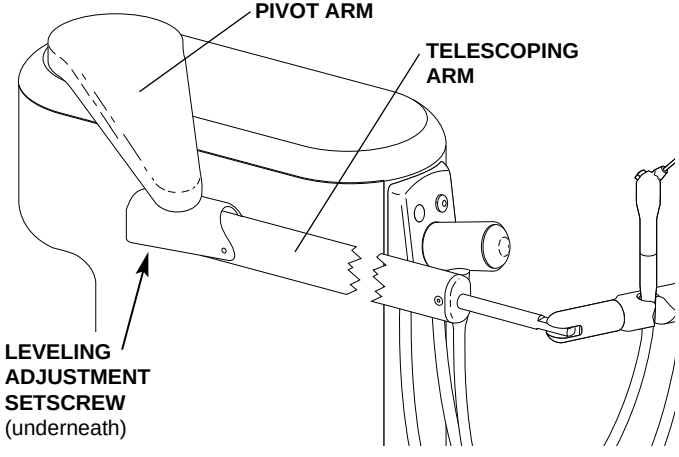

Figure 8. Leveling Adjustment

To tilt the arm up, use a 1/8-inch hex key and turn the key clockwise.

To tilt the arm down, use a 1/8-inch hex key and turn the key counterclockwise.

Touch Pad Programming (optional)

For chair touch pad instructions, refer to the **Cascade 1040 Chair Owner's Guide**, *A-dec Publication No. 85.2605.00* or **Decade 1011/1021 Chair Owner's Guide**, *A-dec Publication No. 85.2635.00* depending on your model of chair.

For Master touch pad instruction, refer to your **Master Series Touch Pad Owner's Guide**, *A-dec Publication No, 85.2627.00*.

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Touch Pad Programming
Cascade 1040 Chair
Owner's Guide 85.2605.00
Decade 1011/1021 Chair
Owner's Guide 85.2635.00
Master Touch Pad
Owner's Guide 85.2627.00

Minimum air, water, and vacuum service requirements for proper unit operation:
Air: 2.50 cfm (70.80 l/min) at 80 psi (551 kPa).
Water: 1.50 gpm (5.68 l/min) at 40 psi (276 kPa).
Vacuum: 12 cfm (339.84 l/min) at 8 inches (27 kPa) of mercury.
Weight of optional touch pad: .50 lbs. (.23 kg).

Specifications are subject to change without notice.

Identification of Symbols

Recognized by Underwriters Laboratories Inc. ® with respect to electric shock, fire and mechanical hazards only in accordance with UL 2601-1. Recognized with respect to electric shock, fire, mechanical and other specified hazards only in accordance with CAN/CSA C22.2, No. 601.1.

UL listed to US (UL 544) and Canadian (CAN/CSA C22.2, No. 125) safety standards.

Classified by Underwriters Laboratories Inc. ® with respect to electric shock, fire and mechanical hazards only in accordance with UL 2601-1. Classified with respect to electric shock, fire, mechanical and other specified hazards only in accordance with CAN/CSA C22.2, No. 601.1.

Conforms to European Directives *(refer to Declaration Statement)*

Protective earth (ground).

Functional earth (ground).

Attention, consult accompanying documents.

TYPE B APPLIED PART.

CLASS II EQUIPMENT.

Classification of Equipment (EN 60601-1)

Type of shock protection:

CLASS I EQUIPMENT
(Dental Chairs, Dental Lights, & Power Supplies)

CLASS II EQUIPMENT
(Chair, Wall, & Cart Mounted Delivery Systems)

Degree of shock protection:

TYPE B APPLIED PART (All products)

Degree of protection against water ingress:

ORDINARY EQUIPMENT (All products)

Mode of operation

CONTINUOUS OPERATION
(All models except Dental Chairs)

Mode of operation

CONTINUOUS OPERATION
WITH INTERMITTENT LOADING (Dental Chairs)

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